



1999 Toxics Release Inventory

ARIZONA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	50,041,471	911,809,449	961,850,920
Air Emissions	3,175,737	2,631,512	5,807,249
Surface Water Discharges	5,452	1,398	6,850
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	15	0	15
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	46,860,267	909,176,539	956,036,806
Off-site Releases (Transfers Off-site to Disposal)*	740,658	738,490	1,479,148
Total On- and Off-site Releases	50,782,129	912,547,939	963,330,068
Recycled On-site	109,669,789	3,023,444	112,693,233
Recycled Off-site	38,880,138	2,001,355	40,881,493
Energy Recovery On-site	964,220	0	964,220
Energy Recovery Off-site	714,035	1,324,943	2,038,978
Treated On-site	6,854,784	4,680,209	11,534,993
Treated Off-site**	3,243,311	881,970	4,125,281
Quantity Released On- and Off-site***	50,951,351	1,019,858,186	1,070,809,537
Total Production-related Waste Managed	211,277,628	1,031,770,107	1,243,047,735
Total Non-production-related Waste Managed	146	81	227

Transfers Off-site for Further Waste Management/Disposal

Recycling	38,792,253	2,003,684	40,795,937
Energy Recovery	1,005,276	1,324,943	2,330,219
Treatment	985,726	748,605	1,734,331
Publicly Owned Treatment Works (POTWs)	2,584,265	20	2,584,285
Metals and Metal Compounds*	3,907	0	3,907
Non-metal TRI Chemicals**	2,580,358	20	2,580,378
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	826,449	738,905	1,565,354
Total Transfers Off-site for Further Waste Management/Disposal	44,193,969	4,816,157	49,010,126

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

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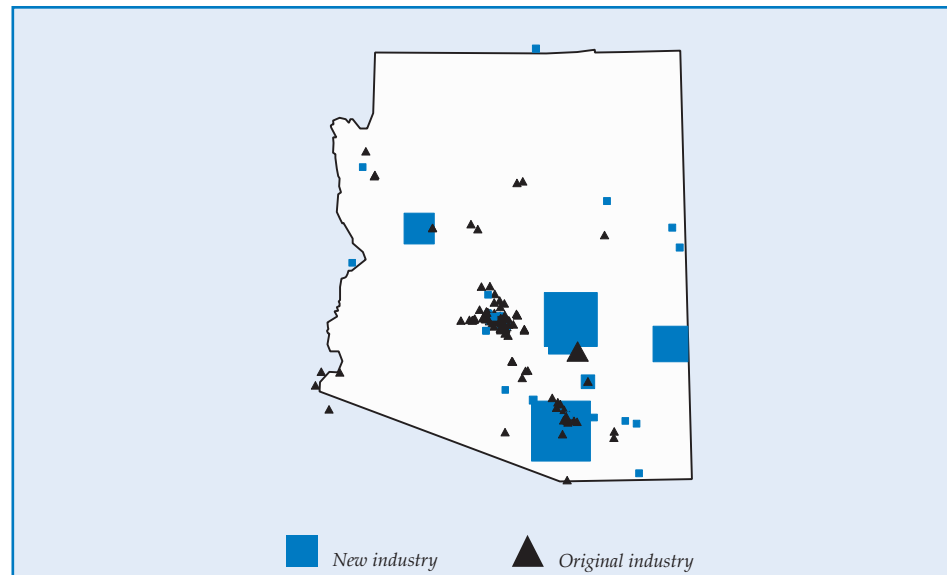
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
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The largest marker in the state map represents the largest facility for on-site releases in the state of Arizona. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	4,778,332
Square Miles	113,642
Total Facilities	237
Total Forms	809
Form As	128

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	18	3	3
Pounds	50,782,129	912,547,939	963,330,068
National Rank for Total On-site Releases**			
Rank	15	3	3
Pounds	50,041,471	911,809,449	961,850,920
National Rank for Total Releases within State***			
Rank	18	3	3
Pounds	51,011,762	911,958,385	962,970,147
National Rank for Production-related Waste Managed			
Rank	29	2	6
Pounds	211,277,628	1,031,770,107	1,243,047,735

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Copper compounds	707,420	3	0	24,630,772	39,395	25,377,590	19,054	12,750	26,645
--	Zinc compounds	11,139	0	0	18,745,962	32,855	18,789,956	42,877	795	32,060
--	Lead compounds	19,712	0	0	2,433,906	53,592	2,507,210	0	15,271	38,321
100-42-5	Styrene	776,503	0	0	0	5,939	782,442	0	5,939	0
67-56-1	Methanol	119,986	0	0	0	275,170	395,156	197	5	275,165
--	Glycol ethers	267,979	250	0	0	250	268,479	0	250	0
7440-47-3	Chromium	1,302	0	5	216,556	40,313	258,176	75	40,313	0
7439-96-5	Manganese	1,640	0	5	203,434	24,014	229,093	0	24,014	0
--	Arsenic compounds	11,738	0	0	190,060	8,515	210,313	19,003	765	7,750
110-54-3	n-Hexane	188,787	0	0	0	0	188,787	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Copper compounds	131,248	1,068	0	672,900,273	1,203	673,033,792	361	788	415
--	Barium compounds	18,297	0	0	92,950,293	2	92,968,592	3,800	0	2
--	Zinc compounds	16,667	223	0	85,659,760	131	85,676,781	471	55	76
--	Manganese compounds	4,393	70	0	28,508,379	332	28,513,174	210	332	0
--	Chromium compounds	3,311	5	0	6,436,388	15,108	6,454,812	53	10	15,098
--	Lead compounds	14,439	7	0	5,801,522	126	5,816,094	1,180	105	21
--	Arsenic compounds	4,437	5	0	5,683,794	262	5,688,498	0	262	0
--	Cobalt compounds	524	5	0	2,404,315	50	2,404,894	0	50	0
7439-96-5	Manganese	214	0	0	2,145,291	0	2,145,505	5	0	0
7440-47-3	Chromium	110	0	0	1,360,652	126,868	1,487,630	99	0	126,868

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	170,336	0	0	0	0	46,192,440	46,362,776	325	0
BHP Copper N.A. San Manuel Smelting & Refining, San Manuel, Pinal	642,837	0	0	0	0	406,387	1,049,224	179	60,963
Sea Ray Boats Inc., Phoenix, Maricopa	272,900	0	0	0	0	0	272,900	1,000	0
Abitibi Consolidated Snowflake Div., Snowflake, Navajo	140,700	0	0	0	0	73,213	213,913	0	0
Imsamet of Arizona, Goodyear, Maricopa	3,700	0	0	0	0	180,000	183,700	0	0
Penn Racquet Sports, Phoenix, Maricopa	156,365	0	0	0	0	0	156,365	0	0
American Natl. Can Co., Phoenix, Maricopa	141,655	0	0	0	0	0	141,655	80	0
MAAX Spas Arizona Inc., Chandler, Maricopa	117,717	0	0	0	0	0	117,717	0	0
BFGoodrich-Aircraft Evacuation Sys., Phoenix, Maricopa	99,800	0	0	0	0	0	99,800	0	0
Apache Nitrogen Prods. Inc., Benson, Cochise	84,700	10	0	0	0	0	84,710	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
ASARCO Inc. Mission Complex, Sahuarita, Pima	9,402	0	0	0	0	233,637,340	233,646,742	0	0
Phelps Dodge Miami Inc., Claypool, Gila	529,000	0	0	0	0	206,592,000	207,121,000	760	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	130,351	147	0	0	0	126,250,083	126,380,581	0	0
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	6,698	25	0	0	0	105,514,832	105,521,555	0	0
ASARCO, Inc. Ray Complex/Ray Ops. Mine, Kearny, Pinal	10,942	282	0	0	0	105,219,562	105,230,786	0	0
Cyprus Sierrita Corp., Green Valley, Pima	19,510	10	0	0	0	85,593,868	85,613,388	0	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	82,626	10	0	0	0	30,825,389	30,908,025	1,124	0
Silver Bell Mining L.L.C., Marana, Pima	2,035	5	0	0	0	5,665,300	5,667,340	0	0
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	30,190	0	0	0	0	3,326,500	3,356,690	33	0
Navajo Generating Station, Page, Coconino	295,186	0	0	0	0	2,168,575	2,463,761	0	100

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
ASARCO Inc. Ray Complex/Hayden Smelter & Concentrator, Hayden, Gila	83,892,628	7,038,035	0	0	0	0	46,362,902	137,293,565	0
BHP Copper N.A. San Manuel Smelting & Refining, San Manuel, Pinal	0	0	0	0	34,000	0	1,110,520	1,144,520	2
United Dairymen of Arizona, Tempe, Maricopa	0	0	0	0	341,970	0	461,347	803,317	0
Sea Ray Boats Inc., Phoenix, Maricopa	0	0	0	2,058	0	880	272,900	275,838	0
Abitibi Consolidated Snowflake Div., Snowflake, Navajo	0	0	0	0	202,116	0	213,948	416,064	0
Penn Racquet Sports, Phoenix, Maricopa	0	0	0	2,688	0	0	156,365	159,053	0
American Natl. Can Co., Phoenix, Maricopa	0	0	0	0	117,841	0	141,735	259,576	0
MAAX Spas Arizona Inc., Chandler, Maricopa	0	0	0	0	0	58	117,717	117,775	0
BFGoodrich-Aircraft Evacuation Sys., Phoenix, Maricopa	0	0	0	14,999	0	0	99,800	114,799	0
North Star Steel Arizona, Kingman, Mohave	0	1,461,036	0	0	0	0	91,470	1,552,506	1

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
ASARCO Inc. Mission Complex, Sahuarita, Pima	0	0	0	0	0	0	336,572,439	336,572,439	0
Phelps Dodge Miami Inc., Claypool, Gila	0	110,000	0	0	0	1,074	207,062,000	207,173,074	0
Phelps Dodge Morenci Inc., Morenci, Greenlee	0	0	0	0	0	410	131,145,570	131,145,980	48
Phelps Dodge Bagdad Inc., Bagdad, Yavapai	0	2	0	0	0	0	105,521,485	105,521,487	0
ASARCO, Inc. Ray Complex/Ray Ops. Mine, Kearny, Pinal	228,957	110,648	0	0	0	3,950	105,230,787	105,574,342	0
Cyprus Sierrita Corp., Green Valley, Pima	0	0	0	0	43,000	0	85,978,588	86,021,588	0
BHP Copper N.A. San Manuel Mining, San Manuel, Pinal	0	0	0	0	150,000	0	30,879,800	31,029,800	0
Silver Bell Mining L.L.C., Marana, Pima	0	0	0	0	2,970	0	5,667,098	5,670,068	0
BHP Copper N.A. Pinto Valley Unit, Miami, Gila	0	0	0	0	0	0	3,356,500	3,356,500	2
Navajo Generating Station, Page, Coconino	0	0	0	0	1,726,107	0	2,463,862	4,189,969	10

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.